

ABSTRACT

A metal catalyst obtained by contacting

(A) at least one metal or metal compound selected from

5 i) tungsten compounds composed of tungsten and an element
of group IIIb, IVb, Vb, or VIb,

ii) molybdenum compounds composed of molybdenum and an
element of group IIIb, IVb, Vb, or VIb, and

iii) tungsten metal and molybdenum metal;

10 (B) at least one compound selected from tertiary amine
compounds, tertiary amine oxide compounds, nitrogen-
containing aromatic compounds and nitrogen-containing
aromatic N-oxide compounds;

(C) hydrogen peroxide; and

15 (D) a phosphate compound, is provided.